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10. A sensor platform composed of a planar optical layer waveguide, comprising a transparent substrate and a waveguiding layer, the waveguide having at least an outcoupling element for coupling out excitation radiation, and on whose waveguiding layer there is located a further tightly sealing layer, which has, at least in a subregion of the excitation radiation, a cutout open at the top, or a cutout which is closed at the top and connected via an inflow channel and outflow channel, for an analytical sample whose depth corresponds at least to the depth of penetration of the evanescent field of the luminescence light guided in the waveguide, and the layer consists of a material which, at least on the bearing surface at least in the depth of penetration of the evanescent field of the luminescence light guided in the waveguide, is transparent to this luminescence light, and the outcoupling element or the outcoupling elements being completely covered by the material of the layer at least in the outcoupling region of the luminescence radiation.